School:		School of Engineering & Technology	
Department		Department of Computer Science & Engineering	
Program:		B. Tech./M. Tech.	
Branch:		CSE	
1	Course Code	NVI0101	
2	Course Title	Introduction to Prompt Engineering	
3	Credits	Non-Credit	
4	Contact Hours (L-T-P)	30 Hours	
	Course Status	VAC	
5	Course Objective	To provide undergraduate and postgraduate students with a comprehensive introduction to the fundamental concepts and practical skills required for prompt engineering, covering essential techniques for crafting effective prompts, optimizing their performance, and und0erstanding their applications across various AI domains.	
6	Course Outcomes	**CO1:** Demonstrate proficiency in understanding and crafting various types of prompts for AI applications. **CO2:** Apply techniques for creating contextually aware and adaptive prompts to enhance AI model performance. **CO3:** Utilize prompt engineering for data processing tasks such as extraction, summarization, and transformation. **CO4:** Implement fine-tuning and evaluation methods to optimize prompt performance and iteratively improve their effectiveness. **CO5:** Design and deploy prompts for specific applications like creative writing, customer support, and code generation. **CO6:** Analyze and discuss the ethical implications of prompt engineering, including bias detection and mitigation, and the responsible use of AI.	
7	Course Description	This course introduces students to the essential concepts and practical skills of prompt engineering, focusing on creating effective prompts for AI models. It covers the basics of prompt design, advanced techniques, practical applications, and ethical considerations. Through hands-on exercises and real-world examples, students will learn to craft, optimize, and deploy prompts across various AI domains, making prompt engineering accessible and applicable to their academic and professional pursuits.	
8	Outline syllabus		CO Mapping
	Unit 1	**Introduction to Prompt Engineering**	
	A	Overview of prompt engineering, significance and applications in AI	CO1
	B	Basics of prompts: structure, components, and types	CO1
	C	Techniques for crafting clear and effective prompts	CO1, CO4
	Unit 2	**Advanced Prompting Techniques**	

	A	Contextual prompts: incorporating context to enhance performance		CO2
	B	Dynamic and adaptive prompts: creating flexible and responsive prompts		CO2
	C	Evaluation and iteration: methods for evaluating and improving prompts		CO4
	Unit 3	**Practical Applications and Ethical Considerations**		
	A	Using prompts in real-world scenarios: case studies and hands-on exercises		CO4
	B	Ethical considerations in prompt engineering: bias detection and mitigation		CO6
	C	Special applications: creative writing, customer support, and code generation		CO5
	Mode of examination	Lecture/Presentation		
	Weightage Distribution	100 Marks	Attendance 10%, Assignments 50% Quiz 20%, Presentation 20%	